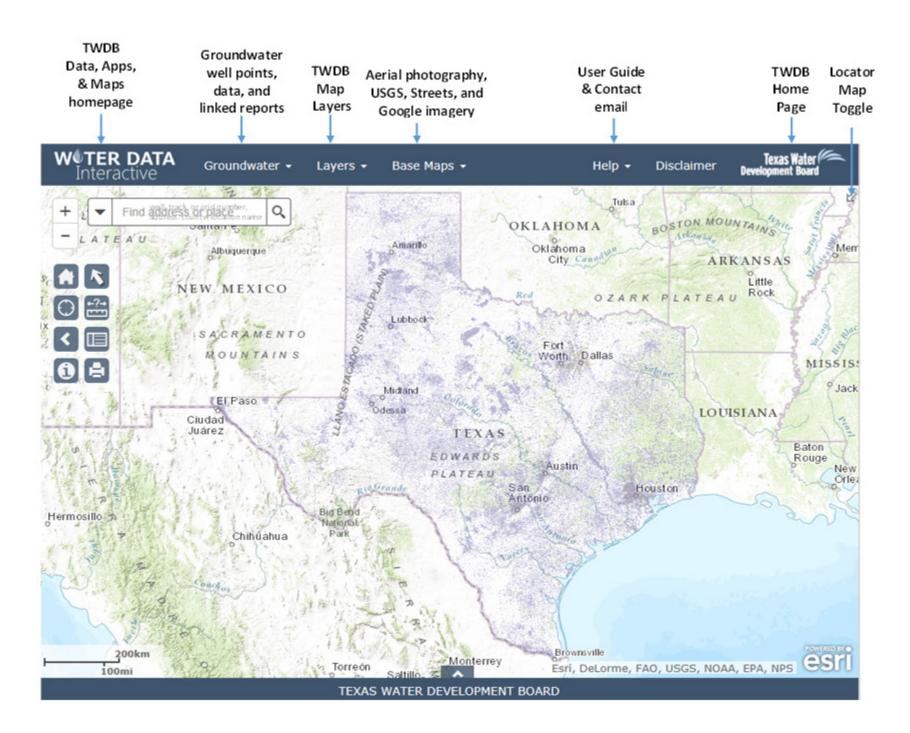
Quick Reference Guide		Application Support Email: WDI-Support@twdb.texas.gov	
How to	Tool(s)	Steps	
Find a well by State number or Track ID	▼ Find address or place Q	Use the Find Tool . Start typing a well number <i>(Groundwater Well Number or Driller Tracking Number)</i> . Matches will begin to appear that you can select or continue to type in full number and search. Well number searches include: • Brackish Groundwater • Submitted Driller's Plugging Report • Submitted Driller's Well Report • TWDB Groundwater Database	
Find the X,Y coordinate value of any location on the map	OR XY	Use the Measurement Tool, then select by XY. • Coordinates are displayed for cursor location and cursor click. OR Select Identify tool, then click anywhere on the map. • Coordinates are displayed along with general location information	
Enter a X,Y coordinate value (Longitude/Latitude) and zoom to it	-97.739734 30.27472 × Q	Use the Find tool to enter coordinates: • Negative Longitude comma or space Latitude • Values must be in decimal format. • Example: -97.739734 30.27472	
Indentify general information about any location on the map	1	Use the Identify Tool , then click any position on the map to reveal basic location information: <i>Major Aquifer, Minor Aquifer, RWPA, GMA, GCD, River Basin, 7.5' USGS Grid, 2.5' State Grid, County, Latitude, Longitude</i>	
Select wells	K	Use the Selection Tool : • Select well locations individually or by defining an area. • All selected records accumulate until 'Clear Selection' is pressed.	
Export well information to CSV (Microsoft Excel readable) file format.	▶ <u>■</u>	Use the Selection Tool: • Select Wells • Export using Tool Window • Export using result table Clear Selection TWDB Groundwater 15 Brackish Groundwater 3 Well Reports 38 Plugs Brackish Groundwater: Well Reports: 38 Plugsing Reports: Owner	
Print a map		Use the Print Tool : • Enter map title • Select page size Print Preview • Download Map	

User Guide: This document provides an overview of the Groundwater Data Viewer and highlights a few of the primary navigation and tool areas users will most likely want to interact with.

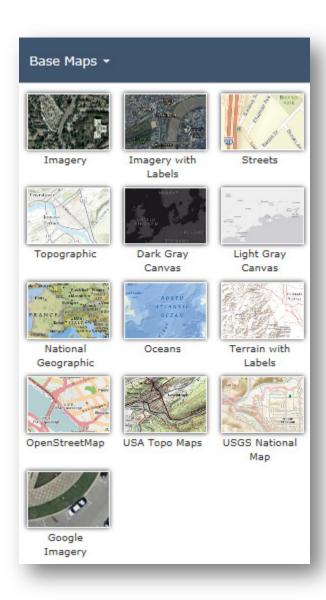
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Section 1. General Information



Section 2. Base Maps

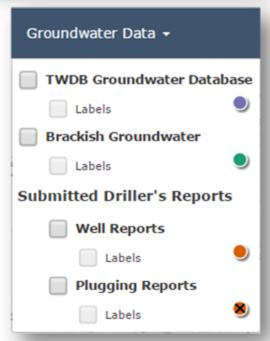


Base Maps:

Imagery	The World Imagery map is a detailed imagery map layer that is designed to be used as a basemap for various maps and applications.
Imagery with Labels	The World Imagery map is a detailed imagery map layer and labels that is designed to be used as a basemap for various maps and applications.
Streets	The Streets basemap presents a multiscale street map for the world.
Topographic	The Topographic map includes boundaries, cities, water features, physiographic features, parks, landmarks, transportation, and buildings.
Dark-Gray Canvas	The Dark Gray Canvas basemap is designed to be used as a soothing background map for overlaying and focus attention on other map layers.
Light Gray Canvas	The Light Gray Canvas basemap is designed to be used as a neutral background map for overlaying and emphasizing other map layers.
National-Geographic	The National Geographic basemap is designed to be used as a general reference map for informational and educational purposes.
Oceans	The Ocean Basemap is designed to be used as a basemap by marine GIS professionals and as a reference map by anyone interested in ocean data.
Terrain with Labels	The Terrain with Labels basemap is designed to be used to overlay and emphasize other thematic map layers.
Open Street Map	The OpenStreetMap is a community map layer that is designed to be used as a basemap for various maps and applications.
USA Topo Maps	The USA topographic map presents land cover and detailed topographic maps of the United States. The maps are seamless, scanned images of the USGS paper topographic maps.
USGS National Map	This Web Map combines the various base map services (Boundaries, Names, Transportation, Elevation, Hydrography, Land Cover and others) that make up The National Map planimetric base map.
Google Imagery	The Texas Google imagery service is high resolution imagery showing the entire state of Texas. The service provides continuous 6-inch natural color imagery for the entire state.

Section 3. Map Layers & Groundwater Data





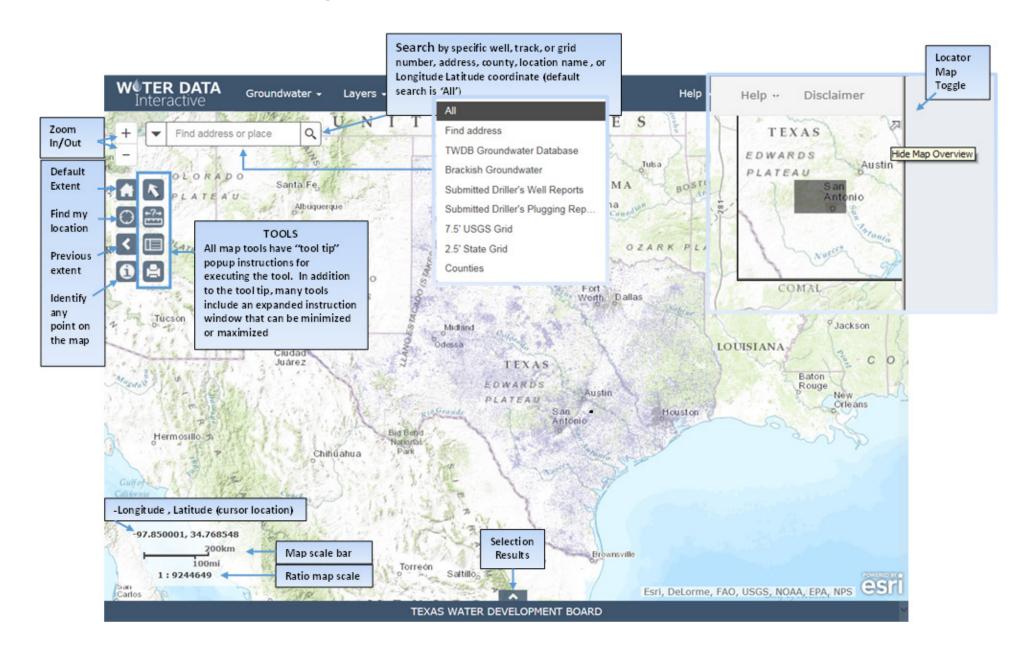
Layers:

Major Aquifers	The 9 major aquifers of Texas as defined by the TWDB, updated December 2006.
Minor Aquifers	The 21 minor aquifers of Texas as defined by the TWDB, updated December 2006.
Regional Water Planning Areas	The 16 Water Planning Regions in Texas, as created by TWDB, updated November 2014.
Groundwater Management Areas	Groundwater Management Area Boundaries, as created by TWDB
Groundwater Conservation Districts	Groundwater conservation districts in Texas. Original data is sourced from TCEQ.
River Basins	The 23 major USGS river basins of Texas
Texas Counties	Texas county boundaries
7.5' USGS Grid	The USGS 7.5-minute map series grid index. The index grid covers the geographic extent of USGS 1:24,000 topographic maps (7.5- by 7.5-minute quadrangles) for Texas.
2.5' State Grid	TWDB well location grid. 2.5 minute grid that covers the state of Texas; meant to be used in conjunction with the USGS and other products that display data based upon this type of grid.

Groundwater Data:

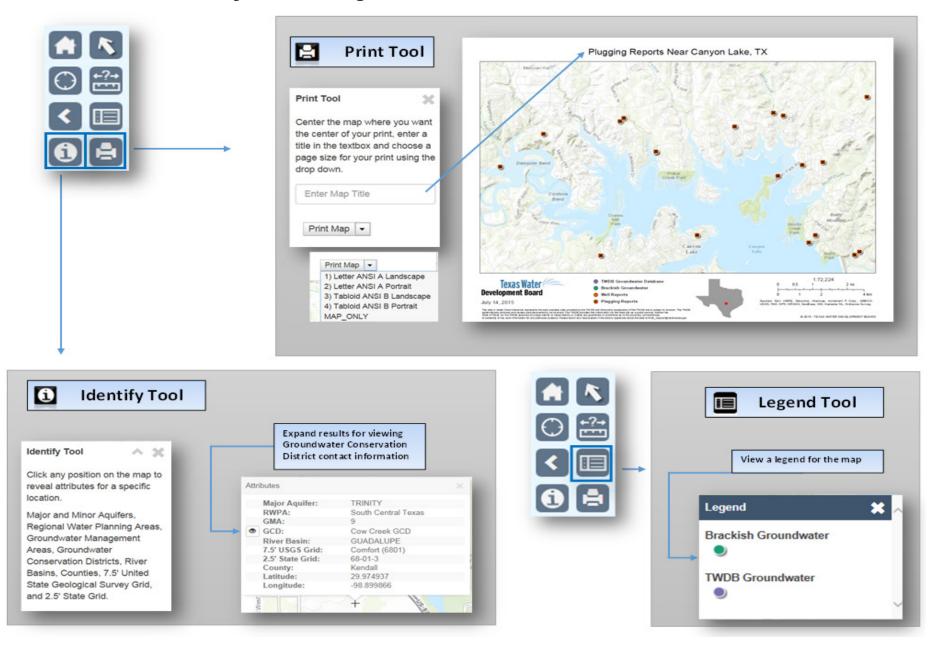
TWDB Groundwater Data	Texas Water Development Board's (TWDB) Groundwater Database. This database contains information on selected water wells, springs, oil/gas tests, water levels and water quality.
Brackish Groundwater	The Brackish Resources Aquifer Characterization System (BRACS) Database stores well and geology information to help characterize the brackish groundwater resources of Texas.
Well Reports	Texas Department of Licensing and Regulation's (TDLR) Submitted Driller's Report Database. This database contains water well reports submitted to TDLR from February 2001 to present.
Plugging Reports	Texas Department of Licensing and Regulation's (TDLR) Submitted Driller's Report Database. This database contains plugged water well reports submitted to TDLR from February 2001 to present.

Section 4. General Navigation

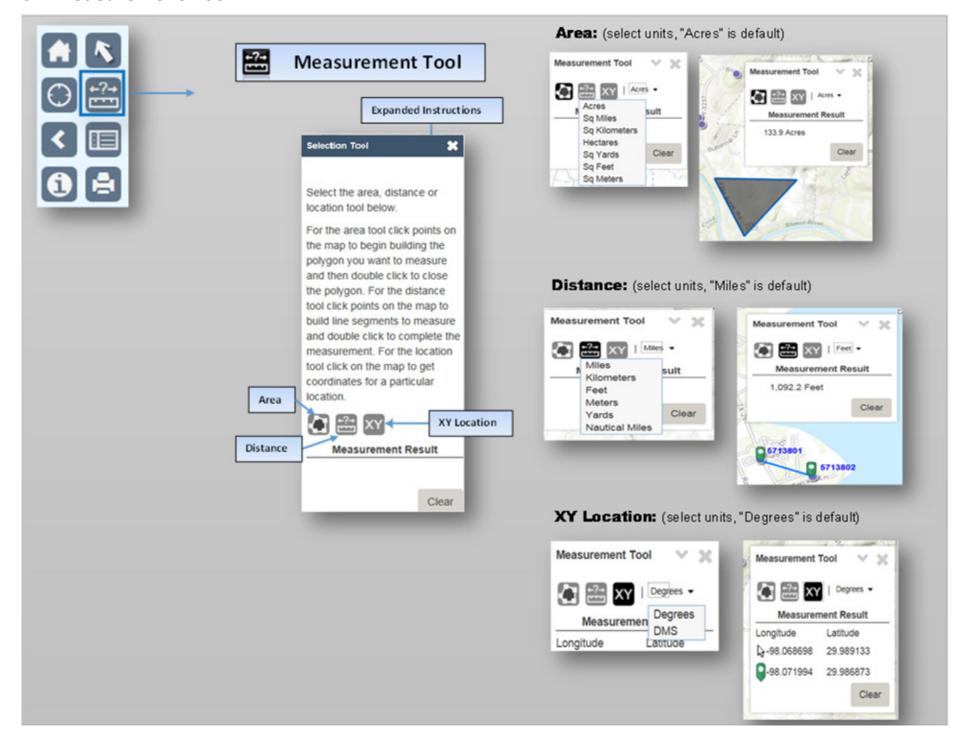


Section 5. Tools

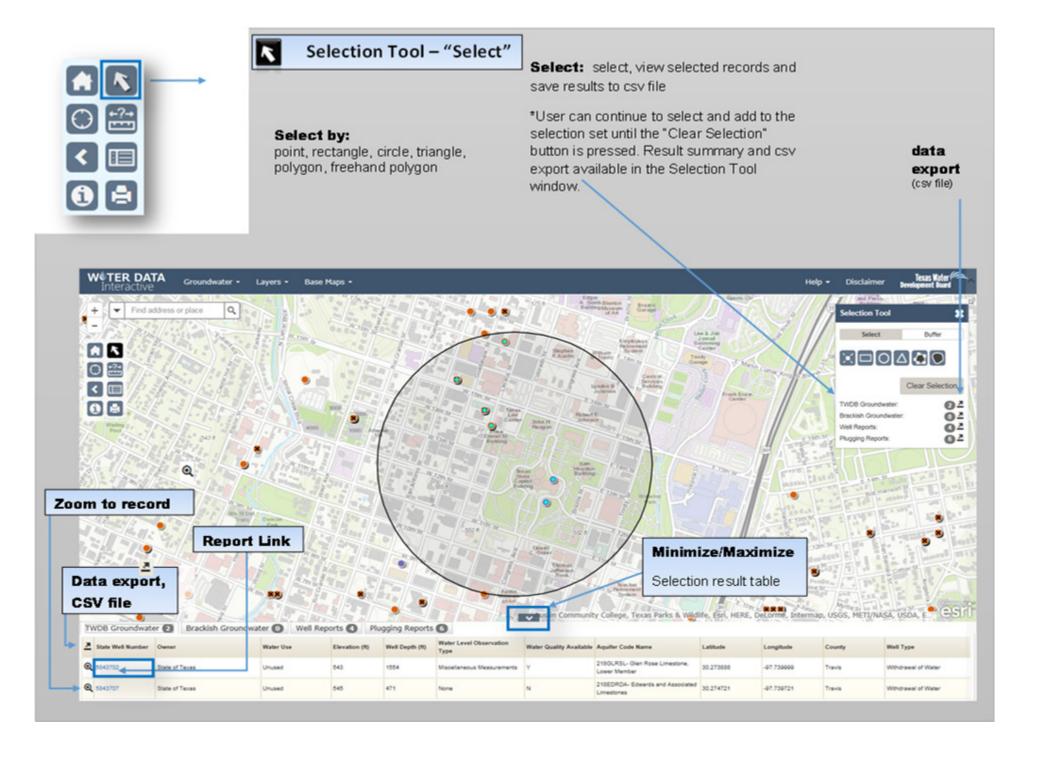
5.1 Print Tool 5.2 Identify Tool 5.3 Legend Tool



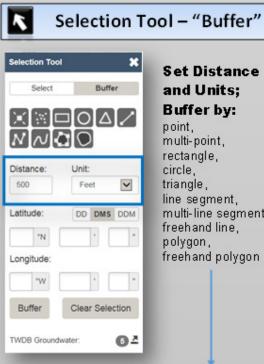
5.4 Measurement Tool



5.5 Selection Tool





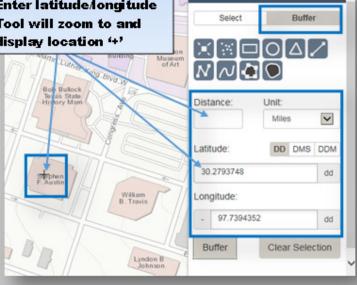


Set Distance and Units: Buffer by:

point. multi-point, rectangle, circle, triangle, line segment, multi-line segments, freehand line, polygon, freehand polygon



- 1. Buffer with no distance value
- 2. Enter latitude/longitude
- 3. Tool will zoom to and display location "+"



Selection Tool

